A Satellite View for INTEX

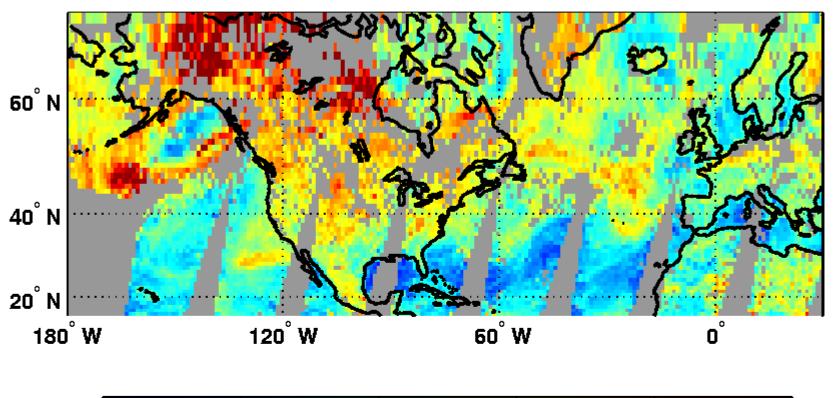
- ENVISAT Sciamachy: Andreas Heckel (U. Bremen)
- Aqua AIRS: Wallace McMillan (UMBC) w/NOAA-NESDIS
- Terra MOPITT: W. McMillan for L. Emmons (NCAR)
- Terra MODIS: Allen Chu (UMBC/JCET)
- GOES GASP: A. Chu for
 - S. Kondragunta and A. Prados (NOAA/NESDIS)

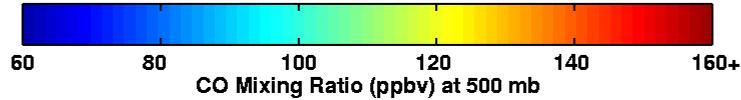
Satellite Goals for INTEX

- Forecasting and Flight-planning guidance
 - Online data and maps (see INTEX forecast/satellite webpage)
 - Scientists in the field
- Validation of satellite retrievals
 - Field comparison of satellite and in situ
 - Detailed post-experiment analysis
- Post-experiment analyses
 - Satellites help put aircraft in situ in a larger context
 - In situ tells satellites what REALLY was were
 - Model assimilation of satellite retrievals
 - Air Quality and long-range transport studies
 - Emissions and process studies

AIRS INTEX CO Movie 7/5-7/11

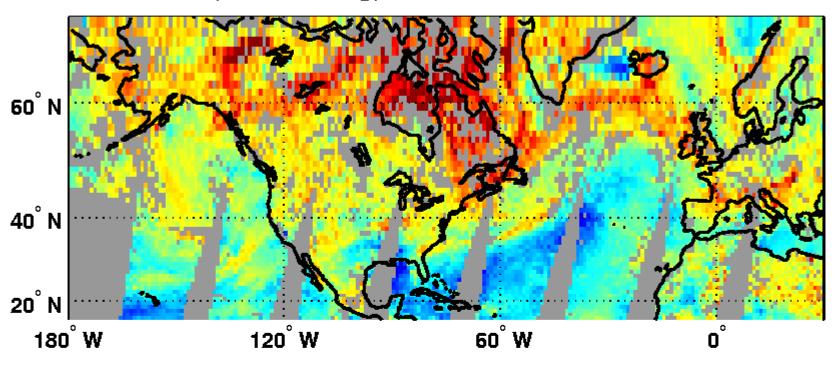
Local AM (descending) AIRS CO at 500 mb on 20040705

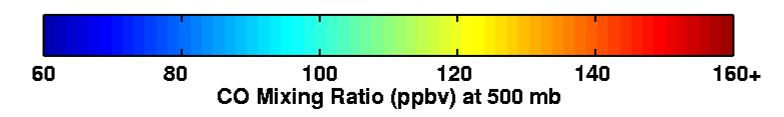




AIRS INTEX CO Movie 7/12-22

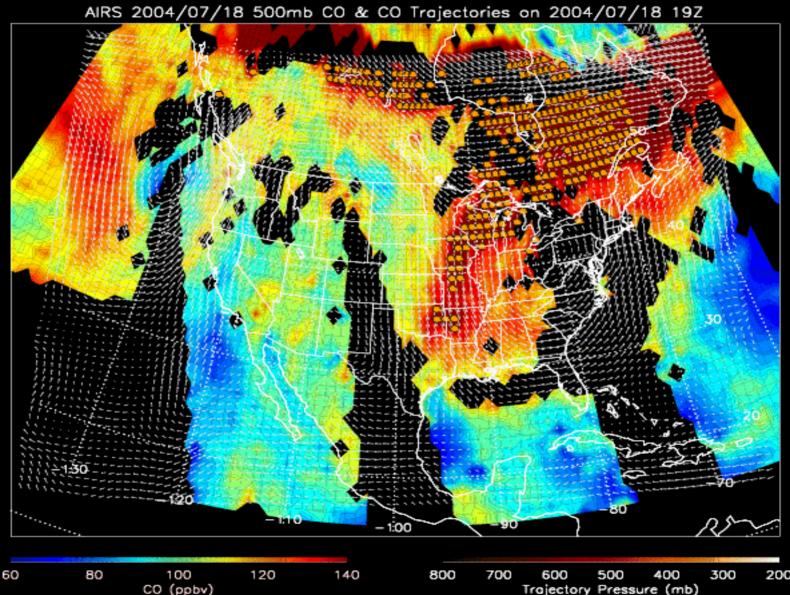
Local AM (descending) AIRS CO at 500 mb on 20040712





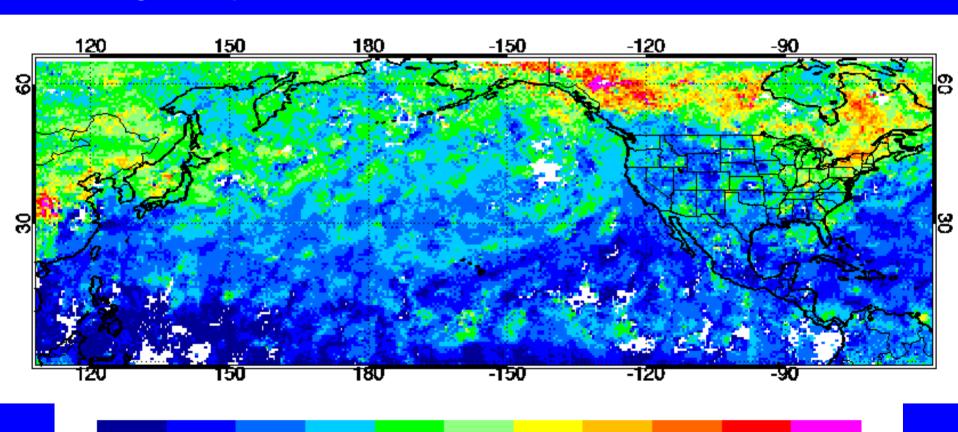
AIRS CO Trajectory Forecast

with Brad Pierce (NASA/LaRC)

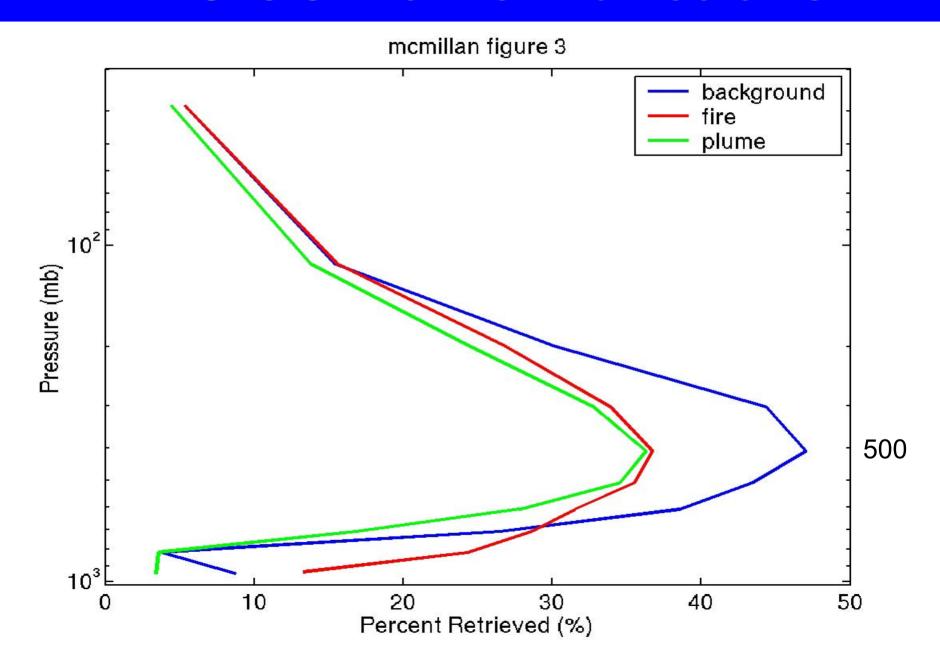


MOPITT CO - July 11-21 - 700 hPa

Highest CO is seen over the fires in Alaska and the Yukon, as well as Asia. Both fires and industrial pollution contribute to high CO over eastern US. Asian pollution being transported across Pacific.

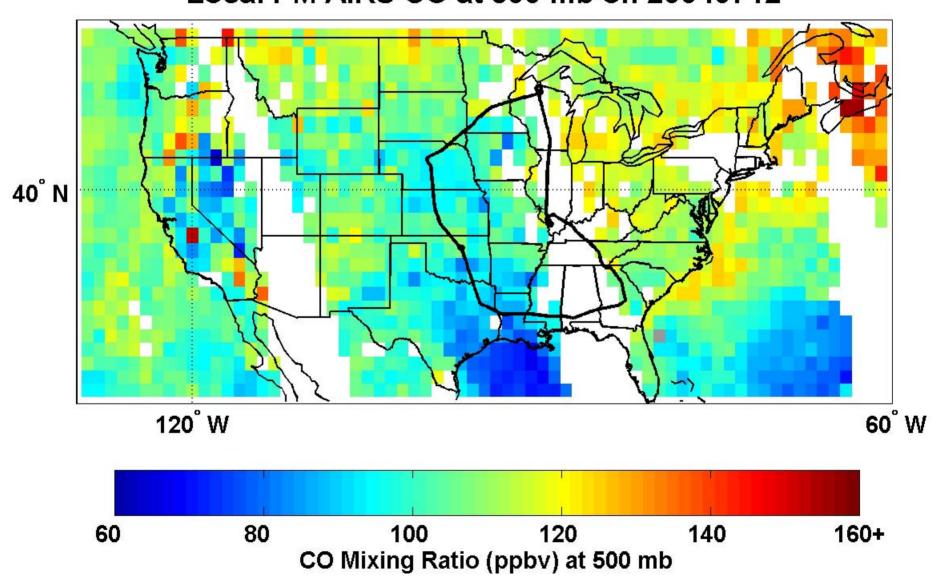


AIRS CO Kernel Functions

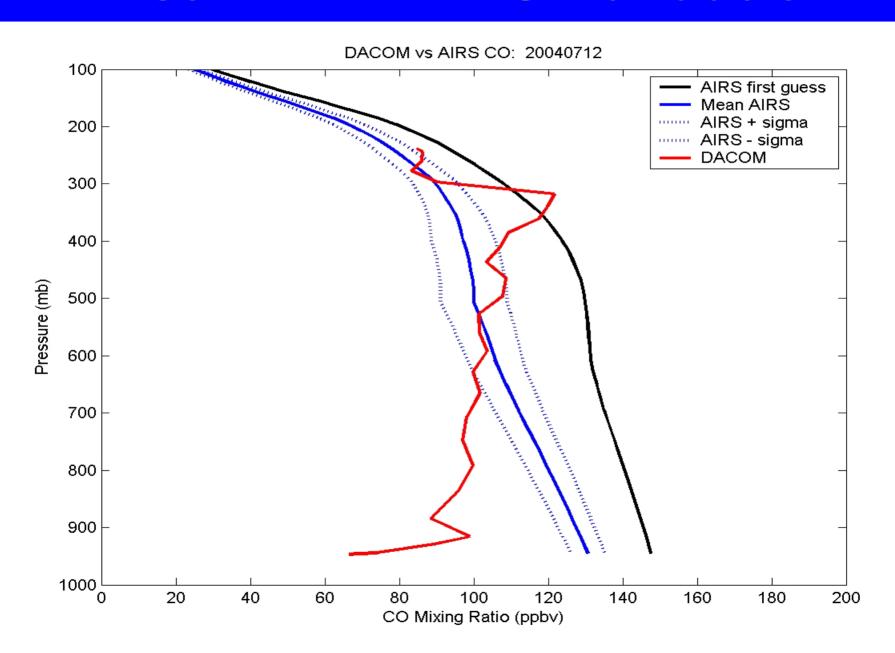


First INTEX AIRS Validation

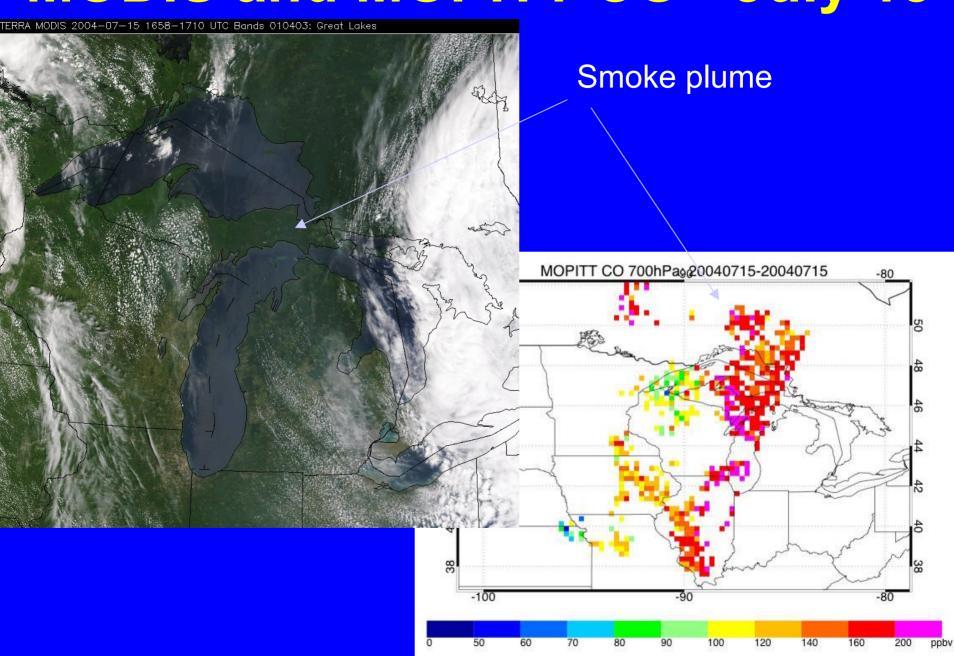
Local PM AIRS CO at 500 mb on 20040712



First INTEX AIRS Validation



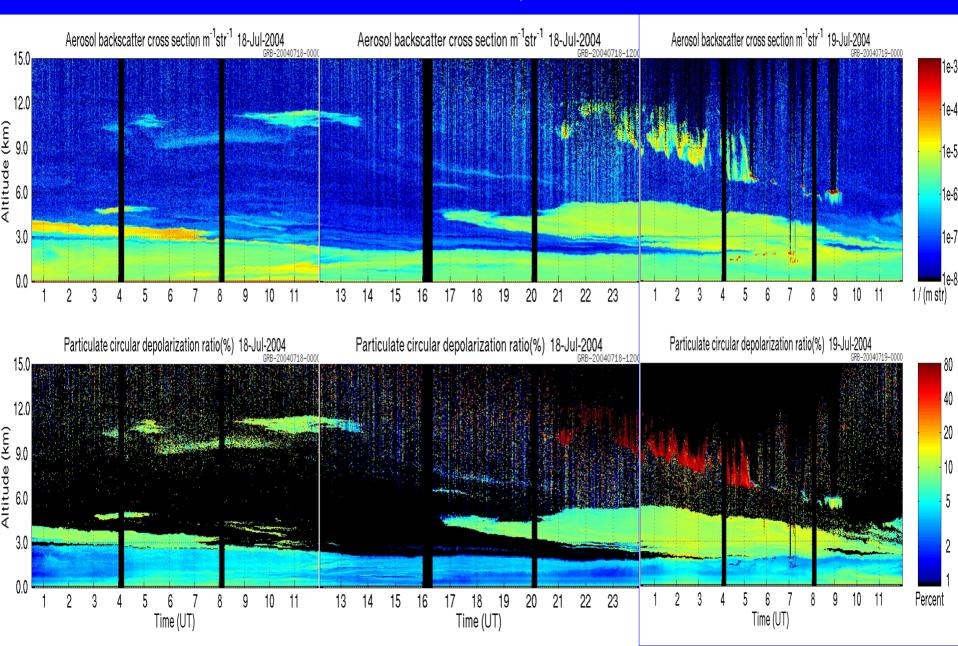
MODIS and MOPITT CO - July 15

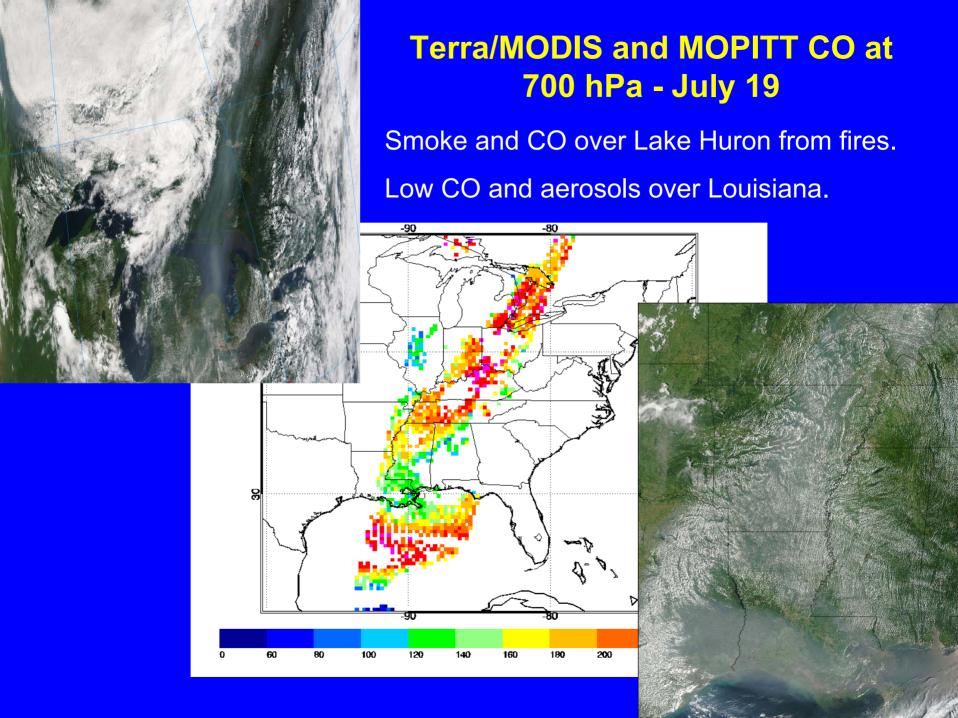


AIRS CO and MODIS Smoke

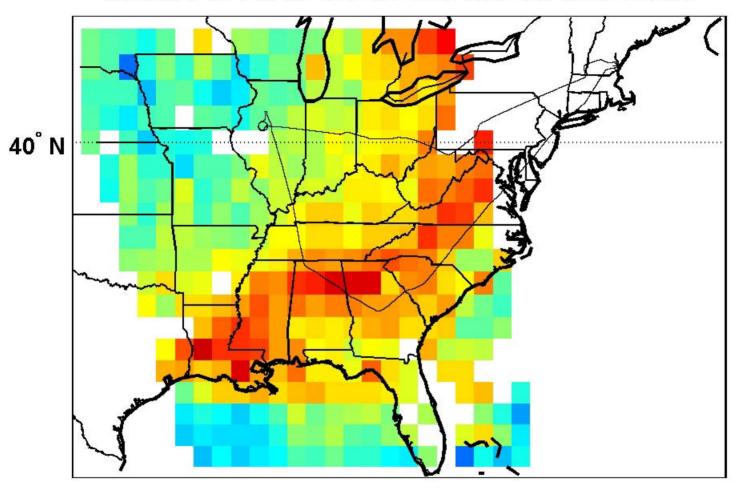
Local PM (ascending) AIRS CO at 500 mb on 20040718 60° W 120 140 160 ppbv) at 500 mb 7/19 MODIS Terra

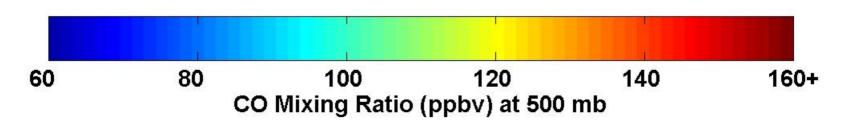
7/18-19 Wisconsin Lidar, Eloranta - REALM





Local PM AIRS CO at 500 mb on 20040720





Alaskan smoke over Alabama

Midwest pollution over Alabama

Terra/MODIS - July 20

Smoke plume across NY and PA

